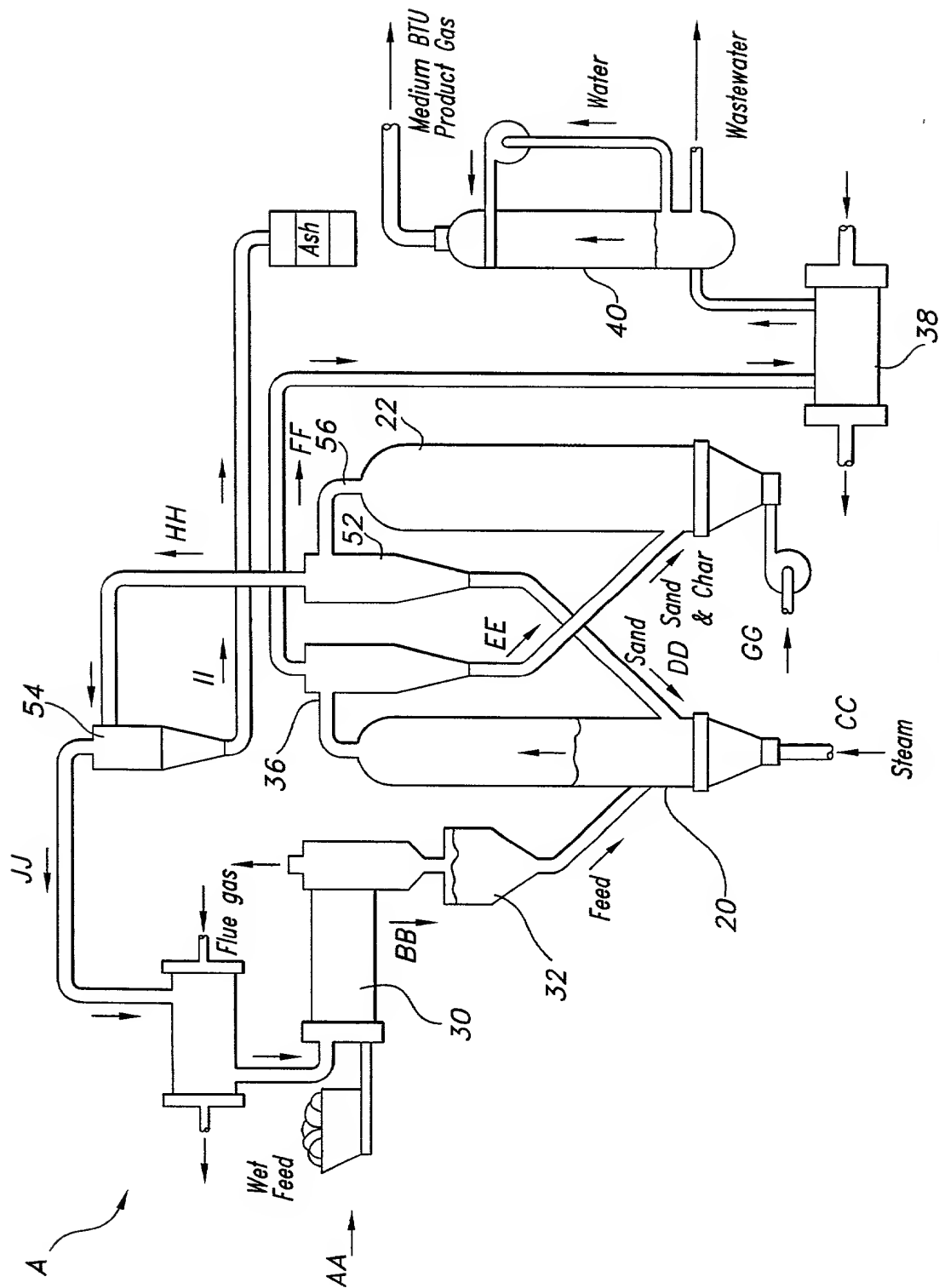
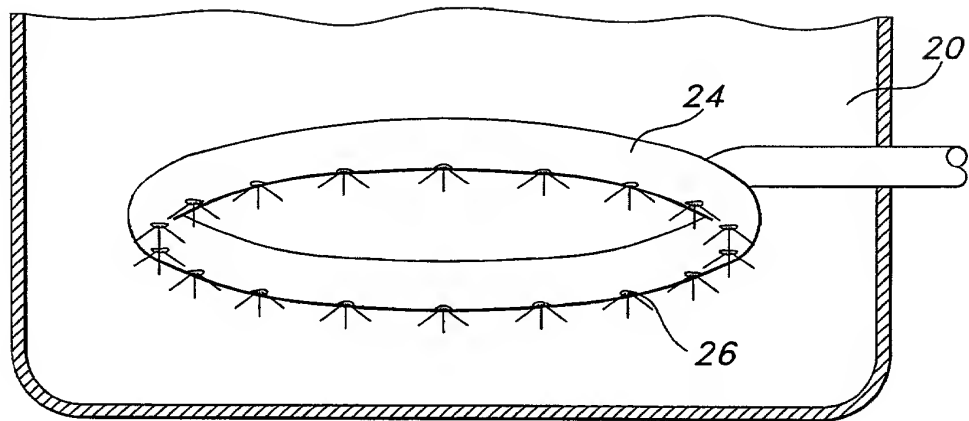


FIG. 1 is a schematic diagram of a process for the treatment of waste material. The process involves the combustion of waste material in a furnace (20) to produce flue gas (11) and ash (36). The flue gas is then treated in a scrubber (30) to remove particulates and sulfur dioxide. The scrubber effluent (32) is then treated in a filter (34) to remove residual particulates. The filter effluent (38) is then treated in a wastewater treatment system (40) to produce medium BTU product gas and wastewater. The wastewater is then treated in a final treatment system (42) to produce water and wastewater. The process also includes a feed system (32) for waste material and a steam input (CC) to the furnace (20).

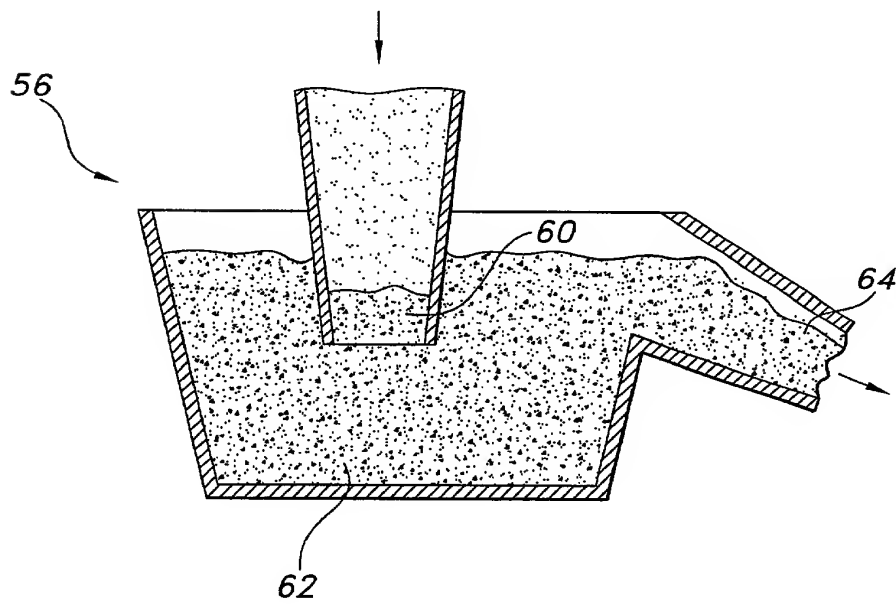


**FIG. 1**

+

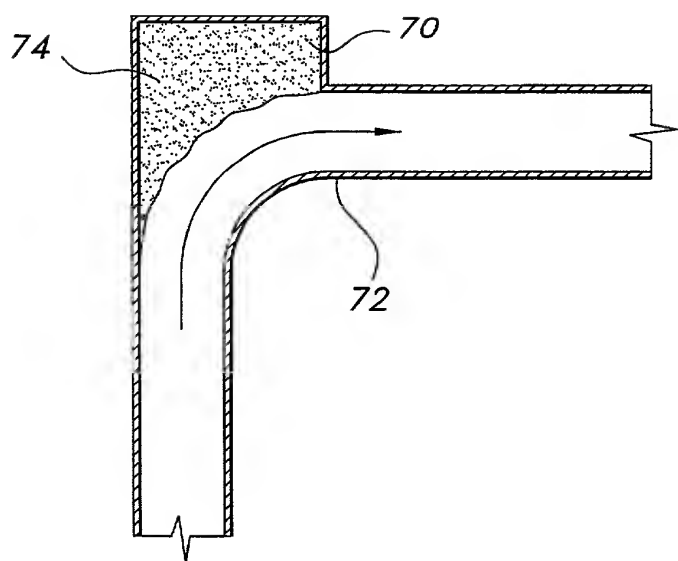


**FIG 2**



**FIG 3**

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**FIG 4**

WOOD ASH ONLY  
WT: 10.00 mg  
SCAN RATE: 20.00 deg/min  
ATMOSPHERE: AIR  
40 cc/min

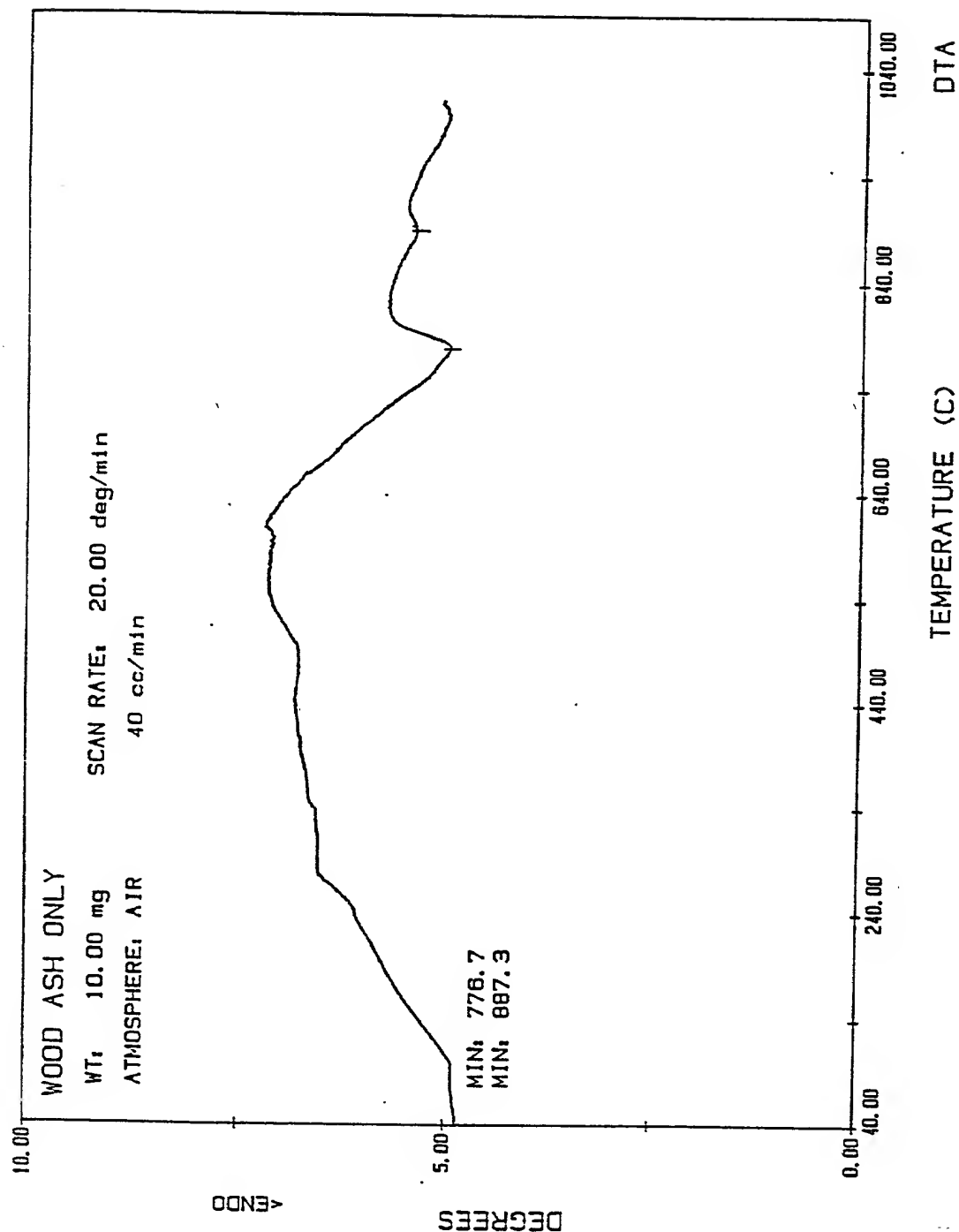


FIG. 5

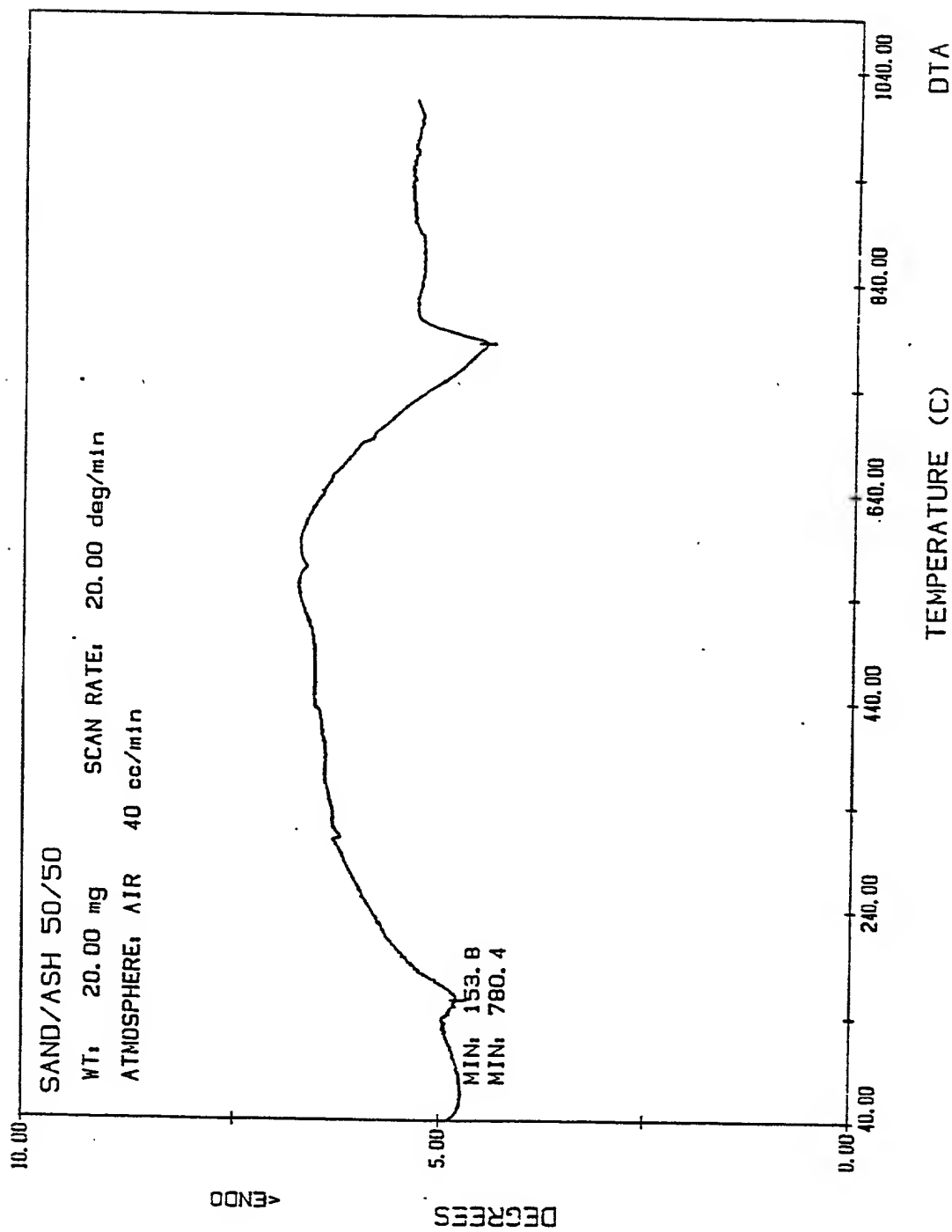


FIG. 6

1000 800 600 400 200 0  
10 20 30 40 50 60 70 80 90 100  
1000 800 600 400 200 0

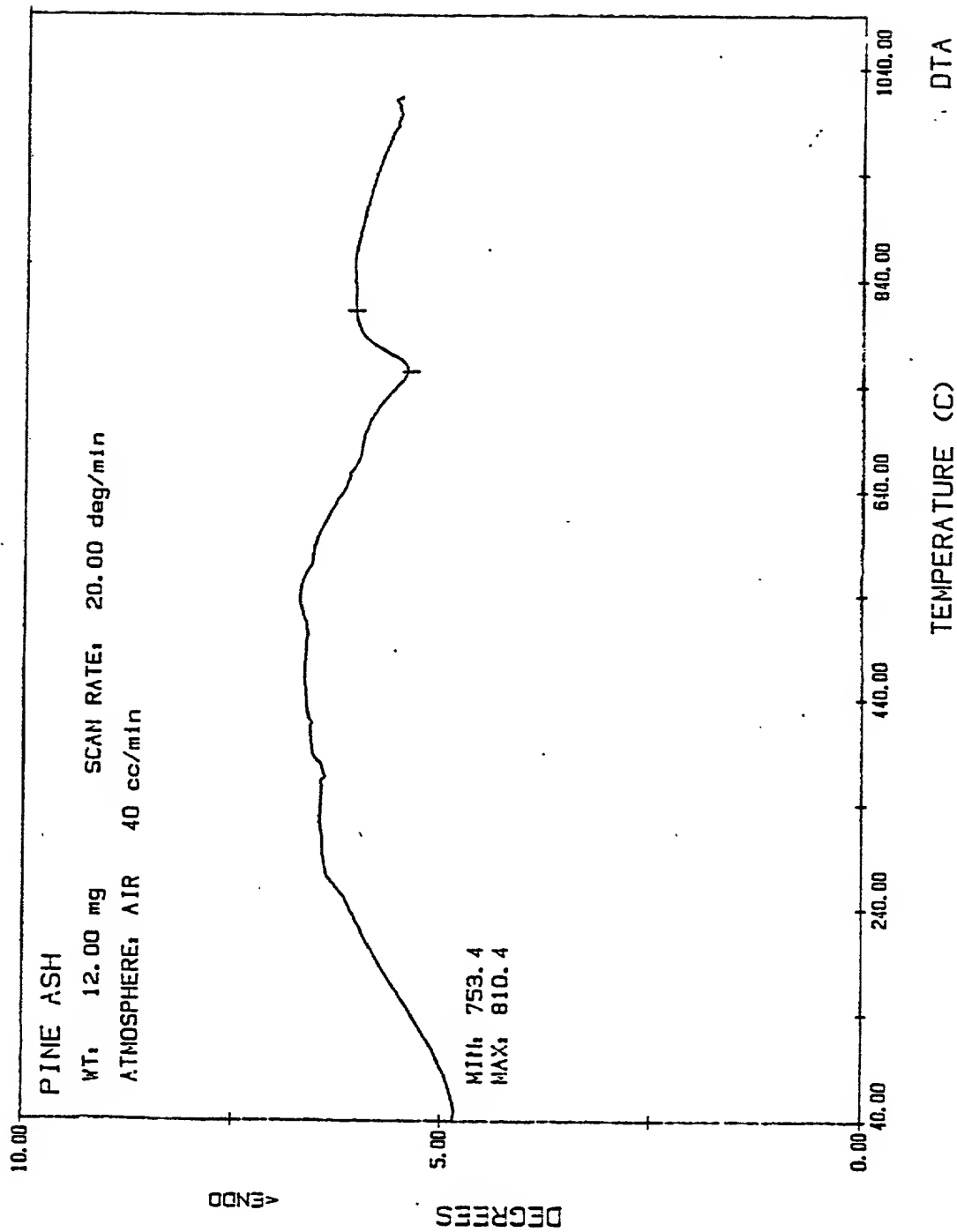


FIG. 7

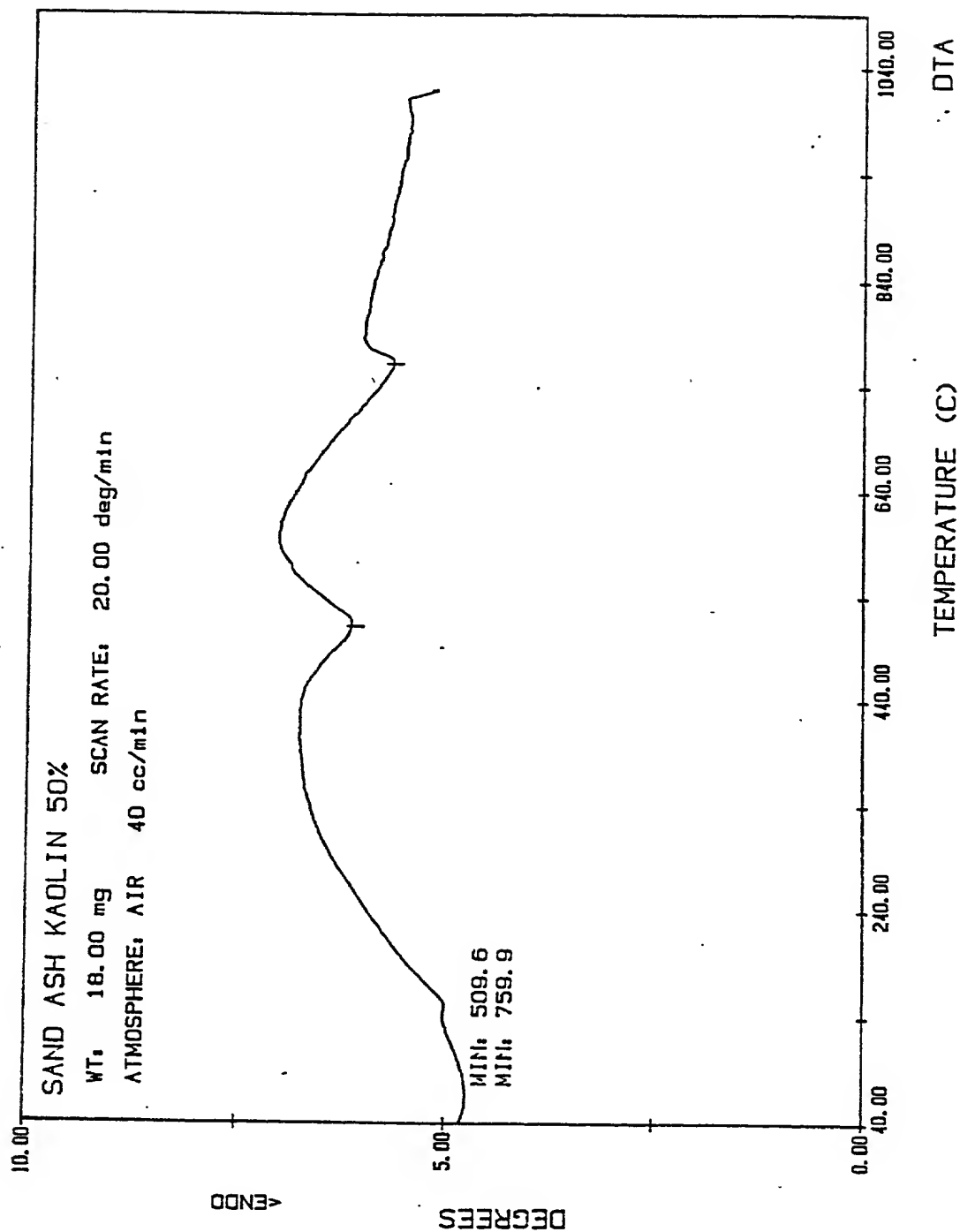
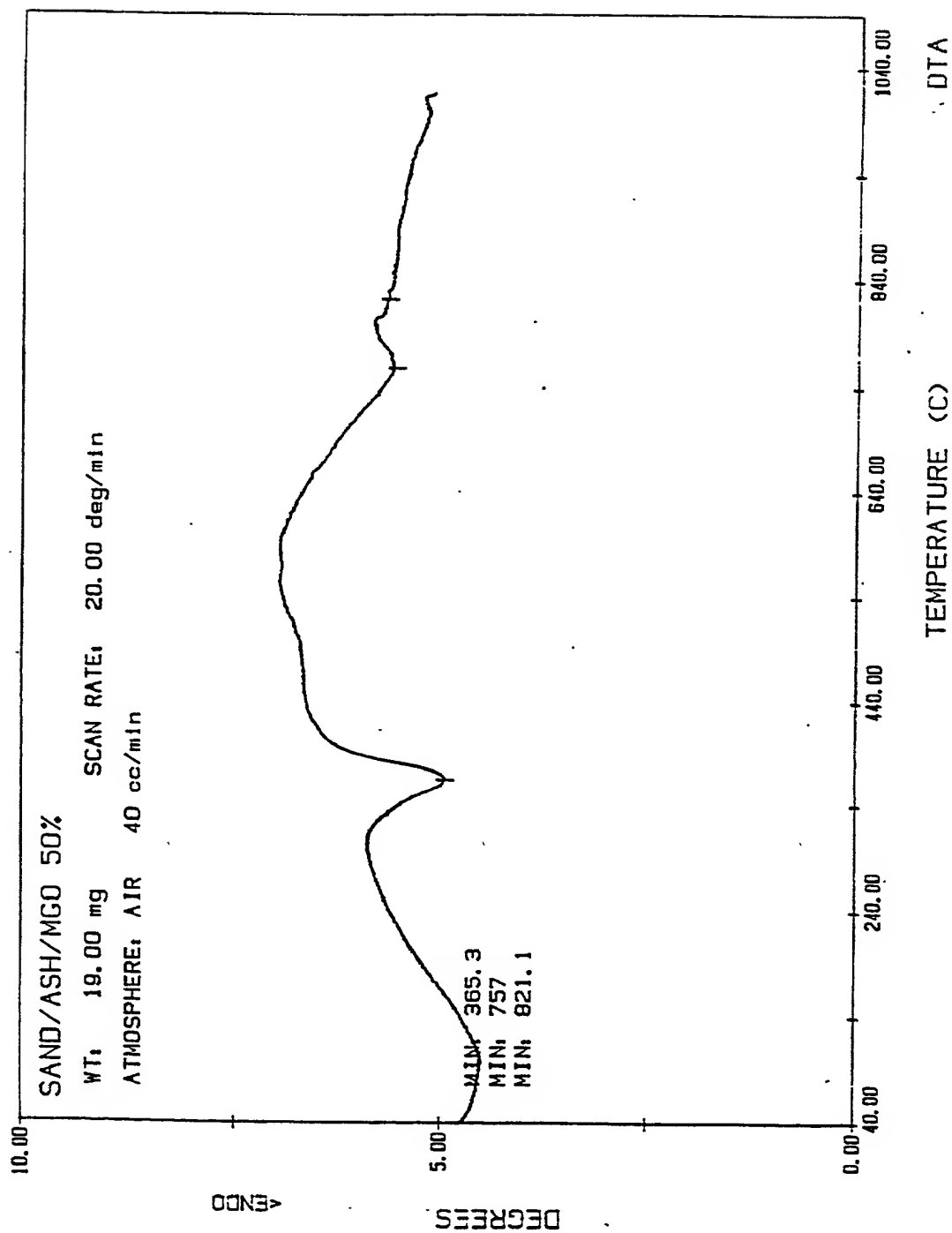


FIG. 8



**FIG. 9**



$K_2O-MgO-SiO_2$

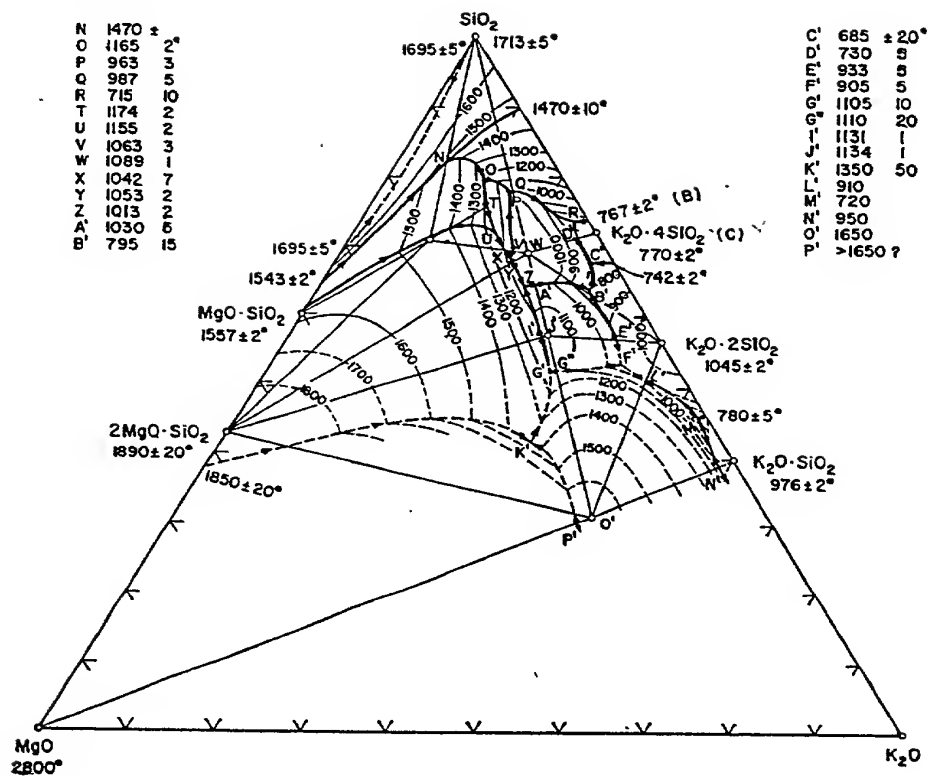


FIG. 10

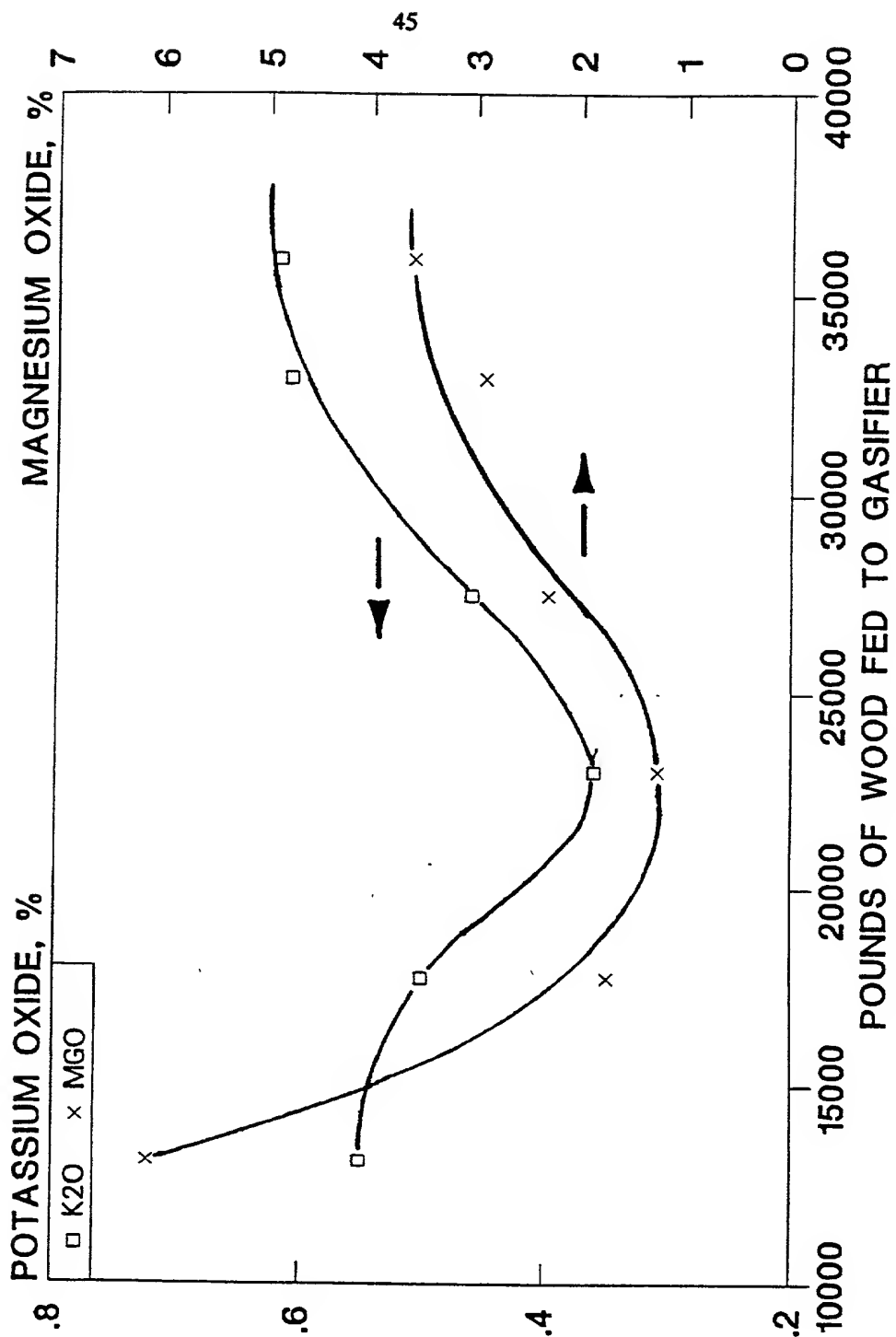
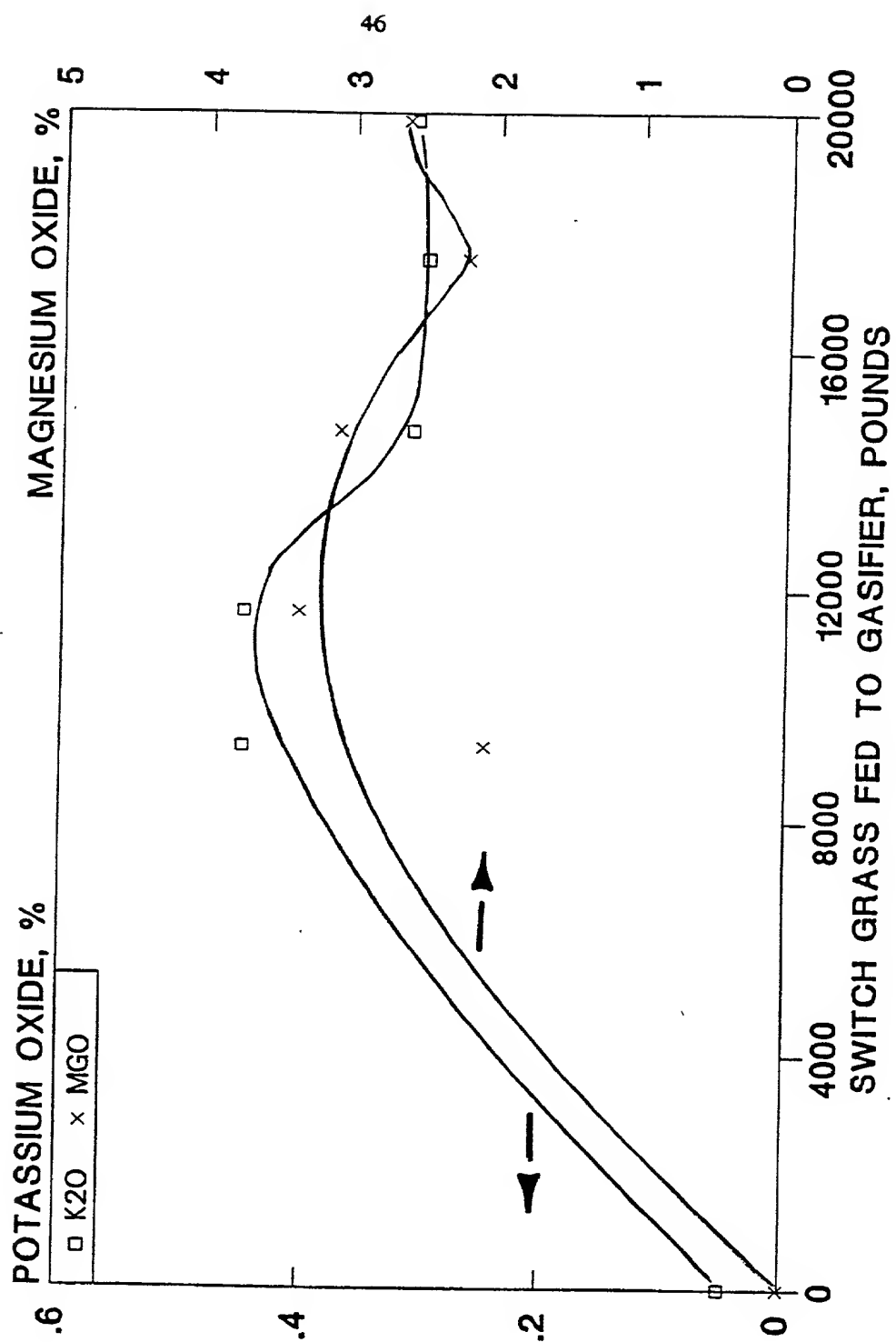


FIG. 11



**FIG. 12**